

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

SK-28

Effective December 1, 2011

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **August 2013**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

4x4 CMC Hurricane Polyurethane Glass Skylights, Impact Resistant, manufactured by:

VTech Industries
5534 Harvey Wilson Drive
Houston, Texas 77020
Telephone: (866) 491-0843

are acceptable for use along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation report.

PRODUCT DESCRIPTION

The 4x4 CMC skylights are fixed polyurethane skylights. The polyurethane skylights are mounted to a curb that is secured to the roof framing of the structure. The polyurethane skylights are impact resistant. This evaluation report is for polyurethane skylights based on the following tested configuration:

General Description:

System	Description	Label Rating
1	4x4 CMC Hurricane Polyurethane Glass Skylight	SKG-C55 51 x 51 AAMA 506-06 Missile Level D

Component Dimensions:

System	Overall Frame Size	Fixed Daylight Opening Size
1	51 $\frac{1}{4}$ " x 51 $\frac{1}{4}$ "	44 $\frac{7}{8}$ " x 44 $\frac{7}{8}$ "

Glazing Description:

System	Glass Construction ¹	Glazing Method ²
1	IG-1	GM-1

Note: ¹ See the "Glass Construction Key" for the glazing construction.

² See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

IG-1: The skylight contains a sealed insulating glass unit. The insulating glass unit is comprised of a $\frac{5}{32}$ " fully tempered glass lite and a laminated glass unit separated by a desiccant-filled aluminum spacer system. The laminated glass unit is comprised of two $\frac{3}{32}$ " heat strengthened glass lites with a 0.120" PVB interlayer by DuPont. The glass thickness used in the insulating glass unit of the tested assembly and in smaller assemblies shall comply with ASTM E 1300-04.

Glazing Method Key:

GM-1: The insulating glass unit is integrally molded to the frame.

Frame Construction: The frame is manufactured of one piece of molded polyurethane.

Reinforcement: None.

Hardware: None.

Product Identification: A certification program label (AAMA) will be affixed to the skylight. The certification program label includes the manufacturer's code name (**VTC-1**); product name: **4x4 CMC Hurricane**; performance characteristics; the approved inspection agency (AAMA); and the following applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05 and AAMA 506-06.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	51 $\frac{1}{4}$	51 $\frac{1}{4}$	± 55

Impact Resistance: These assemblies satisfy the Texas Department of Insurance's criteria for protection from windborne debris in both the **Inland I zone** and the **Seaward zone**. The assemblies passed Missile Level D specified in ASTM E 1996-05. The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. These assemblies will not need to be protected with an impact protective system.

Acceptance of Smaller Assemblies: Identically built assemblies with dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified in this evaluation report.

INSTALLATION INSTRUCTIONS

General: The skylight assembly shall be prepared and installed in accordance with the manufacturer's recommended installation instructions and this evaluation report. Detailed installation instructions and component drawings are available from the manufacturer.

Roof Framing Construction: The skylights shall be mounted to a wood curb. The wood curb shall be minimum 2x Spruce-Pine-Fir (specific gravity of 0.42 or greater) dimension lumber. The wood curb and the attachment of the wood curb to the roof framing shall be designed to resist the design pressures of the skylight as specified in this evaluation report. The wood curb and the attachment of the wood curb to the structure shall be designed by an engineer licensed to practice in the State of Texas.

The skylight shall be secured to the wood curb using the frame of the skylight with minimum No. 10 screws. The fasteners shall be spaced approximately 6 inches from each corner and approximately 12

inches on center along the perimeter of the skylight. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood framing.

Note: The manufacturer's installation instructions and the design drawings shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.